

WHAT IS CLAIMED IS:

1. A machine for scraping a floor covering from a base floor surface comprising:

a machine frame having a longitudinal reference axis which is fixed in relation to said frame;

left and right drive wheels supporting a rear of said frame above the floor and oriented to propel said frame across the floor in a direction parallel to said reference axis;

left and right arms journaled on said frame for independent rotation of said arms about an axis transverse to said reference axis; and

a blade assembly having a floor scraping edge, said assembly being pivotally connected to said left and right arms for independent rotation on blade assembly axes transverse to said reference axis with said scraping edge extending transverse to said reference axis and following a contour of the floor.

1 **2.** A machine according to claim 1 further comprising:

2 a yoke having left and right ends pivotally connected to said left and right
3 arms for independent rotation on yoke axes parallel to said reference axis; and

4 a piston and cylinder for raising and lowering said yoke to transfer said blade
5 assembly between a lower floor scraping position and a higher storage position,
6 said piston and cylinder being pivotally connected at one end thereof to said frame
7 for rotation about an axis transverse to said reference axis and being pivotally
8 connected at another end thereof to said yoke for rotation about an axis parallel to
9 said reference axis.

1 **3.** A machine according to claim 1 further comprising left and right

2 pistons and cylinders for varying a pitch of said blade assembly, said pistons and
3 cylinders being pivotally connected at first ends thereof to said left and right arms,
4 respectively, and being pivotally connected at second ends thereof to said blade
5 assembly for rotation about axes transverse to said reference axis.

1 **4.** A machine for scraping a floor covering from a base floor surface
2 comprising:

3 a machine frame having a longitudinal reference axis which is fixed in relation
4 to said frame;

5 left and right drive wheels supporting a rear of said frame above the floor and
6 oriented to propel said frame across the floor in a direction parallel to said reference
7 axis;

8 left and right arms radially extending from left and right sides of said frame,
9 rear ends of said left and right arms being journalled for independent rotation of said
10 arms about an axis transverse to said reference axis and forward of said left and
11 right wheels; and

12 a blade assembly having a floor scraping edge, said assembly being pivotally
13 connected to forward ends of said left and right arms for independent rotation on
14 blade assembly axes transverse to said reference axis with said scraping edge
15 extending transverse to said reference axis and following a contour of the floor.

1 **5.** A machine according to claim **4** further comprising:

2 a yoke having left and right ends pivotally connected to forward portions of
3 said left and right arms for independent rotation on yoke axes parallel to said
4 reference axis; and

5 a piston and cylinder for raising and lowering said yoke to transfer said blade
6 assembly between a lower floor scraping position and a higher storage position,
7 said piston and cylinder being pivotally connected at an upper end thereof to said
8 frame for rotation about an axis transverse to said reference axis and being pivotally
9 connected at a lower end thereof to said yoke for rotation about an axis parallel to
10 said reference axis.

1 **6.** A machine according to claim **4** further comprising left and right
2 pistons and cylinders for varying a pitch of said blade assembly, said pistons and
3 cylinders being pivotally connected at rear ends thereof to midportions of said left
4 and right arms, respectively, and being pivotally connected at forward ends thereof
5 to said blade assembly for rotation about axes transverse to said reference axis.

1 **7.** A machine for scraping a floor covering from a base floor surface
2 comprising:

3 a machine frame having a longitudinal reference axis which is fixed in relation
4 to said frame;

5 left and right drive wheels supporting a rear of said frame above the floor and
6 oriented to propel said frame across the floor in a direction parallel to said reference
7 axis;

8 left and right arms radially extending from left and right sides of said frame,
9 rear ends of said left and right arms being journaled for independent rotation of said
10 arms about an axis transverse to said reference axis and forward of said left and
11 right wheels;

12 a blade assembly having a floor scraping edge, said assembly being pivotally
13 connected to forward ends of said left and right arms for independent rotation on
14 blade assembly axes transverse to said reference axis with said scraping edge
15 extending transverse to said reference axis and following a contour of the floor;

16 a yoke having left and right ends pivotally connected to forward portions of
17 said left and right arms for independent rotation on yoke axes parallel to said
18 reference axis;

19 a piston and cylinder for raising and lowering said yoke to transfer said blade
20 assembly between a lower floor scraping position and a higher storage position,
21 said piston and cylinder being pivotally connected at an upper end thereof to said
22 frame for rotation about an axis transverse to said reference axis and being pivotally
23 connected at a lower end thereof to said yoke for rotation about an axis parallel to
24 said reference axis;

25 left and right pistons and cylinders for varying a pitch of said blade assembly,
26 said left and right pistons and cylinders being pivotally connected at rear ends
27 thereof to midportions of said left and right arms, respectively, and being pivotally
28 connected at forward ends thereof to said blade assembly for rotation about axes
29 transverse to said reference axis; and

30 means for operating said raising and lowering cylinder and said left and right
31 cylinders in one of independent and simultaneous modes.

1 8. A machine according to claim 7 further comprising means for selecting
2 operation of said raising and lowering cylinder in one of raising, lowering, locked
3 and floating modes.